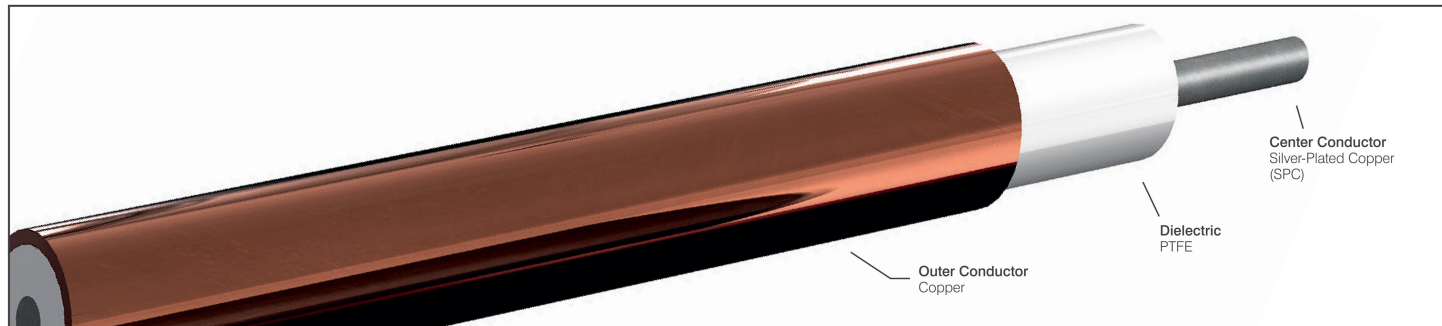


## Semi-Rigid Coaxial Cables

P/N UT-250A-M17 | 50 Ω Copper Outer Conductor

### INTRODUCTION



All of our 50 Ω copper semi-rigid cables feature low attenuation and VSWR covering the entire microwave spectrum. With numerous connector options available off-the-shelf, this family of cables is one of the most versatile available today. They meet the demands of package density and provide total shielding for elimination of signal loss and noise.

### DIMENSIONS

Outer Conductor Diameter	in	0.250 ± 0.001
	mm	6.350 ± 0.025
Center Conductor Diameter	in	0.0641
	mm	1.6281
Length (Maximum)	Feet	20
	Meter	6.10

### MATERIALS

Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPC
RoHS Compliant	✓

### MECHANICAL CHARACTERISTICS\*

Outer Conductor Integrity Temp.	°C	150
Operating Temperature (Max)	°C	100
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	10.38
	kg / 100m	15.58

\* Applicable at room temperature. Contact factory for performance over temperature range.

### ELECTRICAL CHARACTERISTICS\*

Characteristic Impedance	ohm	50
Capacitance	pF / ft	29.0
	pF / m	95.2
Corona Extinction Voltage	VRMS @ 60 Hz	3000
Voltage Withstanding	VRMS @ 60 Hz	16800
Higher Order Mode Frequency	GHz	19.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	4.3
	@ 1.0 GHz	6.7
	@ 5.0 GHz	17.4
	@ 10.0 GHz	27
	@ 18.0 GHz	40
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	1780
	@ 1.0 GHz	914.8
	@ 5.0 GHz	364.5
	@ 10.0 GHz	238.3
	@ 18.0 GHz	163.2
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A